

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
22 September 2005 (22.09.2005)

PCT

(10) International Publication Number
WO 2005/087779 A1

(51) International Patent Classification⁷: **C07D 495/04**

(74) Agents: JANG, Seongku et al.; 19th Fl., KEC Building,
#275-7, Yangjae-dong, Seocho-ku, Seoul 137-130 (KR).

(21) International Application Number:

PCT/KR2005/000586

(81) Designated States (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) International Filing Date: 3 March 2005 (03.03.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:

10-2004-0016714 12 March 2004 (12.03.2004) KR

(71) Applicant (*for all designated States except US*): HANMI PHARM. CO., LTD. [KR/KR]; #893-5, Hajeo-ri, Paltan-myeon, Hwaseong-gun, Kyungki-do 445-910 (KR).

(84) Designated States (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): YUN, Sangmin [KR/KR]; Kumkang Apt. 1103-302, #213, Gumi-dong, Bundang-gu, Seongnam-si, Kyungki-do 463-700 (KR). KIM, Eun Sook [KR/KR]; Hansan Apt. 104-1308, Ilwon-2-dong, Kangnam-gu, Seoul 135-232 (KR). KIM, Hee Seock [KR/KR]; Samsung Apt. 15-1201, Oryu-dong, Jung-gu, Daejeon 301-758 (KR). HA, Tae Hee [KR/KR]; Sinnamusil 512-1504, #964-5, Youngtong-dong, Paldal-gu, Suwon-si, Kyungki-do 442-727 (KR). SUH, Kwee-Hyun [KR/KR]; Greenville Apt. 101-204, #1258, Maetan-3-dong, Paldal-gu, Suwon-si, Kyungki-do 442-373 (KR). LEE, Gwan Sun [KR/KR]; Woochang Apt. 3-404, Okeum-dong, Songpa-gu, Seoul 138-130 (KR).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF PREPARING THIENO[3,2-C]PYRIDINE DERIVATIVES AND INTERMEDIATES USED THEREIN

(57) Abstract: Ticlopidine and clopidogrel having high blood platelet aggregation inhibitory and anti-thrombotic activities are simply prepared by reacting a substituted thiophene derivative with a 2-chlorobenzylamine derivative.

WO 2005/087779 A1